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ANSWER 198 OF 301 CA COPYRIGHT 2006 ACS on STN
Ll
     106:125030 CA
AN
     Entered STN: 17 Apr 1987
ED
    High-strength cement composition
TI
     Sakai, Etsuro; Shibayama, Yukio
IN
     Denki Kagaku Kogyo K. K., Japan
PA
     Jpn. Kokai Tokkyo Koho, 5 pp.
50
     CODEN: JKXXAF
DT
     Patent
     Japanese
LA
     ICM C04B028-02
IC
ICI
    C04B028-02, C04B022-06, C04B024-22
     58-3 (Cement, Concrete, and Related Building Materials)
CC
FAN.CNT 1
                                            APPLICATION NO.
                                                                   DATE
     PATENT NO.
                         KIND
                                DATE
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                                            JP 1985-19292
     JP 61178462
                         A2
                                19860811
                                                                   19850205
PRAI JP 1985-19292
                                19850205
CLASS
                 CLASS PATENT FAMILY CLASSIFICATION CODES
 PATENT NO.
                        JP 61178462
                 T CM
                        C04B028-02
                        C04B028-02, C04B022-06, C04B024-22
                 ICI
                        C04B0028-02 [ICM,4]; C04B0028-02 [ICI,4]; C04B0022-06
                 IPCI
                        [ICI,4]; C04B0024-22 [ICI,4]
     In a high-strength cement composition containing cement, ultrafine powder,
AB
     high-performance water-reducing agent, and water, crushed opal-based
     siliceous rock, blast-furnace slag, or fly ash is used as the ultrafine
    powder and this reduces the shrinkage during its hardening. Thus, a test
    piece manufactured from a raw mix containing cement 80, fly ash
     (mean particle size 3.04µ) 20, sand 120,
     high-performance water-reducing agent 2, and water ≥1 weight parts had
     compressive strength 1423 kg/cm2 and hardening shrinkage 1.4%.
     fly ash mortar hardening shrinkage; blast furnace slag mortar hardening
ST
     shrinkage; silica powder mortar hardening shrinkage
ΙT
    Ashes (residues)
        (coal fly, mortar from cement and, with low hardening shrinkage)
IT
    Mortar
        (from cement with fly ash or siliceous rock or blast-furnace slag, with
       low hardening shrinkage)
IT
        (blast-furnace, mortar from cement and, with low hardening shrinkage)
IT
     7631-86-9, Silica, uses and miscellaneous
     RL: USES (Uses)
        (powder, mortar from cement and, with low hardening shrinkage)
                   - cement (3.04 am mear fartile size)

- Fly ash

- water reduces aget

- water
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